

## Claims

- [1] A digital broadcasting receiver having a DGPS RTCM data output port, the receiver comprising:
- a radio frequency processing means for receiving digital broadcasting signals and converting the received signals into baseband data;
  - a decoding means for decoding the baseband data to generate decoded data;
  - a DGPS information extractor means for extracting a Differential Global Positioning System (DGPS) information from a DGPS data which is one of the decoded data; and
  - a RTCM104 formatting means for converting the DGPS information into RTCM104 data which is compatible with the DGPS RTCM data input port and outputting the RTCM104 data through the DGPS RTCM data output port.
- [2] The receiver as recited in claim 1, wherein the DGPS data output port is a com port for outputting RTCM104 data.
- [3] A digital broadcasting terminal supporting the DGPS using the digital broadcasting receiver, comprising:
- a radio frequency processing means for receiving digital broadcasting signals and converting the received signals into baseband data;
  - a decoding means for decoding the baseband data to generate decoded data;
  - a DGPS information extractor means for extracting a Differential Global Positioning System (DGPS) information from a DGPS data which is one of the decoded data; and
  - a RTCM104 formatting means for converting the DGPS information into RTCM104 data which is compatible with the DGPS RTCM data input port and outputting the RTCM104 data through the DGPS RTCM data output port; and
  - a GPS receiving means for receiving the RTCM104 data through the DGPS RTCM data input port and computing position of a user based on the RTCM104 data.
- [4] The terminal as recited in claim 3, further comprising means for providing maps or geographic information based on the positioning information received from the GPS receiving means.
- [5] The terminal as recited in claim 3, wherein the Global Positioning System (GPS) receiving means independently provides the GPS service.
- [6] The terminal as recited in claim 3, wherein the RTCM104 formatting means and

the GPS receiving means are coupled to each other through one of RS-232 serial interface, Universal Serial Bus (USB) or IEEE1394 interface.